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10/534,394	11/16/2005	Bartosz Krzysztof Wasilewski	TTP104254	2861
	7590 05/12/201 IRO & FINNAN, LLC	EXAMINER		
1901 RÉSEAR	CH BOULEVARD	DOAN, PHUOC HUU		
SUITE 400 ROCKVILLE, MD 20850			ART UNIT	PAPER NUMBER
			2617	
			NOTIFICATION DATE	DELIVERY MODE
			05/12/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

epatent@usiplaw.com

	Application No.	Applicant(s)			
Office Action Summary	10/534,394	WASILEWSKI, BARTOSZ KRZYSZTOF			
omce Action Gammary	Examiner	Art Unit			
	PHUOC DOAN	2617			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was a Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply by rill apply and will expire SIX (6) MONTHS cause the application to become ABAND	ION. be timely filed from the mailing date of this communication. DNED (35 U.S.C. § 133).			
Status					
 1) Responsive to communication(s) filed on 09 Fe 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters,				
Disposition of Claims					
4) ☐ Claim(s) 12-19 is/are pending in the application 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine 11).	epted or b) objected to by the drawing(s) be held in abeyance. on is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sumn Paper No(s)/Ma	il Date			
S) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:					

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 12-19 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 12-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Antia (US Patent No: 6,347,124) in view of Attallah (US Pub No: 20020168013).

As to claim 12, 16, Antia discloses a method of conditioning signal values being conveyed to a decoder "Fig. 4 with description in DECODER function" in a wireless-communications network receiver (col. 5, lines 51-61), the method comprising step of: scaling the signal values (col. 4, lines 55-67 "three scale factor has selected to optimize the fading channel performance of the disclosed three bit soft decision scheme"), monitoring

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the probability distribution of the amplitudes of the scaled signal values adjusting the scaling factor according to the parameter obtained in step (b) (col. 5, lines 10-45 "monitoring step of scaling should be adjusted when the scale factor is decrease or increase based on the average signal magnitude in associated with available range of soft decision values"). However, Antia does not disclose the outputted by a receiver by probability distribution of the amplitudes of the signal including generating a parameter based on the probability distribution that is not grossly effected by amplitude saturation of the signal values.

In the same field of endeavor, Attallah discloses the outputted by a receiver by probability distribution of the amplitudes of the signal including generating a parameter based on the probability distribution that is not grossly effected by amplitude saturation of the signal values (par [0046-0050] "applied a parameter values versus of the amplitude values to generate a resulted based on the relative amplitude values that is not a grossly effected of the signal where a probability density function of the signal have been applied"). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify by Attallah to the system of Antia in order to **improve** the output of a receiver in term of detect any par of multi-path impulse radio signal.

As to claim 13, Antia further discloses a method according to claim 12, wherein the monitoring step comprises calculating a complementary cumulative probability density function for a signal value magnitude (see detailed in col. 5, lines 1-45 "it is defined by a series of discrete ranges of bit signal value for scale factor based on the probability of density function of the average signal magnitude to vary the scaling of the quantization function in order to has the actual range of bit signal values within each burst which has been calculated by step of probability density function for a signal").

As to claim 14, 18, Antia further discloses a method according to claim 12, wherein the monitoring step comprises determining the fraction of a group of signal values that exceed a certain magnitude (col. 5, lines 35-40 "if the average signal magnitude is high s>0.7").

As to claim 15, 19, Antia further discloses a method according to claim 12, wherein the decoder is a 3G telecommunications bit-rate signal decoder (col. 3, lines 55-65, col. 6, lines 35-45 "the soft decision bits are decoded by the decoder 64, and the bits associated with a given burst correspond to information received from a particular mobile device").

As to claim 17, Antia further discloses wherein the monitoring means is adapted to calculate a complimentary cumulative probability density

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function for a signal value magnitude (see detailed in col. 5, lines 1-45 "it is defined by a series of discrete ranges of bit signal value for scale factor based on the probability of density function of the average signal magnitude to vary the scaling of the quantization function in order to has the actual range of bit signal values within each burst which has been calculated by step of probability density function for a signal").

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUOC DOAN whose telephone number is (571)272-7920. The examiner can normally be reached on 10:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, LESTER KINCAID can be reached on 571-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PHUOC DOAN/ Examiner, Art Unit 2617

/LESTER KINCAID/ Supervisory Patent Examiner, Art Unit 2617